PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT PARIMENT
To: HONEYWELL INTERNATIONAL INC. Attn. Hoiriis, David 101 Columbia Road P.O. Box 2245 Morristown, New Jersey 07960 UNITED STATES OF AMERICA	NOTIFICATE TO THAN SMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE DECLARATIONAL SEARCHING AUTHORITY, OR THE DECLARATION LAW-PHX-JH SEP - 1 2005
	(PCT Rule 44.1) Date of mailing
	(day/month/year) 23/08/2005
Applicant's or agent's file reference	
H0004326-3174	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	Intermational filing date
PCT/US2004/040295	(day/month/year) 03/12/2004
Applicant ·	
HONEYWELL INTERNATIONAL INC.	
Where? Directly to the International Bureau of WIPO, 34 of 1211 Geneva 20, Switzerland, Fast For more detailed instructiona, see the notes on the accommodate applicant is hereby notified that no international search in Article 17(2)(a) to that effect and the written opinion of the line. With regard to the protest against payment of (an) additions the protest together with the decision thereon has been applicant's request to forward the texts of both the protest in decision has been made yet on the protest; the application of decision has been made yet on the protest; the application of the priority cleim, must reach the International Bureau. If the applicant wishes to avoid or postpone pure before the completion of the technical preparations for international Bureau. The International Bureau will send a copy of such international Bureau. The International Bureau will send a copy of such the public but not before the expiration of 30 months from the priority within 18 months from the priority date, but only in respect of some decamination must be filed if the applicant wishes to postpone the entire date (in some Offices even later); otherwise, the applicant must, with acts for entry into the national phase before those designated Offices in respect of other dealgnated Offices, the time limit of 30 months.	ally 2 months from the date of transmittal of the etails, see the notes on the accompanying sheet. themin des Colombettes cimile No.: (41–22) 740.14.35 panying sheet. aport will be established and that the declaration under mational Searching Authority are transmitted herewith. If fee(s) under Rule 40.2, the applicant is notified that: transmitted to the international Bureau together with the stand the decision thereon to the designated Offices. and will be notified as soon as a decision is made. International application will be published by the publication, a notice of withdrawel of the international au as provided in Rules 90 bts.1 and 90 bts.2, respectively, publication. Iten opinion of the International Searching Authority to the oth comments to all designated Offices unless an bished. These comments would also be made available to date. designated Offices, a demand for international preliminary yento the national phase until 30 months. Itom the priority in 20 months from the priority date, perform the prescribed International apply even if no demand is filed within 19
See the Annex to Form PCT/IE/301 and, for details about the applicate Guide, Volume II, National Chapters and the WIPO Internet eith.	le time limits, Office by Office, see the ECT Applicant's ECEIVE
me and mailing address of the international Searching Authority.	honzed officer.
European Patent Office, P.B. 5818 Patentaan 2	oni Munoz-Mannekan Linik 20

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative instructions under that Treaty, in case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international phulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the International phase, the daims may also be amended (or further amended) under Article 34 before the International Presiminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

Whom?

Within 2 months from the date of transmittal of the international search report or 15 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the international Bureau after the expiration of the applicable time fimit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to tile the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

Howt

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is carefuled, no renumbering of the other claims is required, in all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims, it should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCY/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (II) the claim is cancelled:
- (III) the claim is new:
- (iv) the claim reptaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed,

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 38 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11,"
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the informational application and the amended claims.

It must be in the language in which the international appplication is to be published.

il must be brief, not exceeding 500 words if in English or if translated into English.

If should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. If must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1),"

It may not contain any disparaging comments on the international aearch report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international proliminary examination has already been filled

if, at the time of filing any amendments under Article 19, a demand for international proliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the international Bureau, also file a copy of such amendments with the international Preliminary Exercising Authority (see Rule 62.2(a), first centence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filled.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.	International filing date (day/month	h/year) (Earliest) Priority Date (day/month/year)
PCT/US2004/040295	03/12/2004	04/12/2003
Applicant		
HONEYWELL INTERNATIONAL IN	IC.	
This International Search Report has been according to Article 18. A copy is being tre	n prepared by this international Search insmitted to the international Bureau.	ching Authority and is transmitted to the applicant
This International Search Report consists It is also accompanied by	of a total of 4 she a copy of each prior art document of	
Basis of the report With regard to the language, the language in which it was filed, unle	nternational search was carried out o ses otherwise indicated under this ite	on the basis of the international application in the am.
The International e		of a translation of the International application furnished to
b. With regard to any nucleo	tide and/or amino acid sequence o	disclosed in the international application, see Box No. I.
2. Certain claims were foun	d unsearchable (See Box II).	
3. Unity of invention is lack	ing (see Box III).	
4. With regard to the tittle,		
the text is approved as sub	• •	
the text has been establish	ed by this Authority to read as follows	is;
,		
. Men and a second	•	
 With regard to the abstract, the text is approved as subn 	nitted by the anolicant	
the text has been establishe	d, according to Rule 38.2(b), by this	Authority as it appears in Box No. IV. The applicant
may, within one month from	the date of mailing of this internation	nel search report, submit comments to this Authority.
. With regard to the drawings,		
a, the figure of the drawings to be pub	tished with the abstract is Figure No.	1
as suggested by the	• • •	
	uthority, because the applicant falled	
es selected by this A b. none of the figures is to be b	uthority, because this figure better d	haracterizes the livention.

INTERNATIONAL SEARCH REPORT

			PCT/US2004/040295
A. CLASS IPC 7	SIFICATION OF SUBJECT MATTER B23K26/00 C30B33/06		
·	to International Patent Classification (IPC) or to both national c	lassification and IPC	
Minimum d	locumentation searched (classification system followed by class B23K C30B	elfication symbols)	
Documenta	dion searched other than minimum documentation to the exten	that such documents are include	ed in the fields searched
	tata base consulted during the International search (name of diternal, WPI Data, PAJ, INSPEC	ata baso and, where practical, so	earch terma used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category *	Ctation of document, with indication, where appropriate, of t	he relevant passagea	Relevant to claim No.
X	WO 03/087439 A (SIEMENS AKTIENGESELLSCHAFT; BECK, THOM BOSTANJOGLO, GEORG; COX, NIG) 23 October 2003 (2003-10-23) the whole document	IAS;	1-10
X	US 6 024 792 A (KURZ ET AL) 15 February 2000 (2000-02-15) the whole document		1-10
х .	EP 0 740 977 A (UNITED TECHNOL CORPORATION) 6 November 1996 (column 2 - column 12; claims 1	1996-11-06)	1–10
		- /	
χ Purthe	or documents are listed in the continuation of box C.	X Patent family memb	ers are listed in annex.
A' document consider	twhich may throw doubts on priority claim(a) or cited to establish the publication date of another or other special reason (as specified) it referring to an oral disclosure, use, exhibition or leans it published prior to the international filing date but in the priority date claimed	or priority deite and not called to undorstand the Invention "X" document of particular recursor be considered in involve an inventive site. "Y" document of particular recannot be considered to document is combined in ments, such combination in the art. "&" document member of the	
	August 2005	Date of mailing of the inte	пистент распец варон
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INTERNATIONAL SEARCH REPORT

International Application No PCT/HS2004/040295

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•	RION) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.	4
ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Haisvant to daim No.	
	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02, 2 April 2002 (2002-04-02) & JP 2001 269784 A (TOSHIBA CORP), 2 October 2001 (2001-10-02) the whole document	1-10	
	US 6 573 471 B1 (KURIYAMA KAZUYA ET AL) 3 June 2003 (2003-06-03) the whole document	1-10	
	EP 0 503 696 A (GENERAL MOTORS CORPORATION) 16 September 1992 (1992-09-16)	1-10	
	A. HIROSE, D. NAKAMURA, H. YANAGAWA, K. F. KOBAYASHI: "Microstructure and Mechanical Property of Laser Welds of Single Crystal Nickel Base Superalloy CMSX-4" MATERIALS SCIENCE FORUM, vol. 426-432, 2003, pages 4007-4012, XP008051132 Switzerland the whole document	1-10	
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INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No PCT/US2004/040295

	Patent document		Publication date		Patent family member(s)		Publication date
				l		6.1	20 10 2003
WC	03087439	Α	23-10-2003	DE	10243558		30-10-2003
				CN	1516756		28-07-2004
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				U\$	2004112280	A1	17-06-2004
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		•		ĴΡ	3444723	B2	08-09-2003
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				ĴΡ	5069239		23-03-1993